IMB-140

Intel® Dual-Core Atom™ D2700 CPU + NM10 Express

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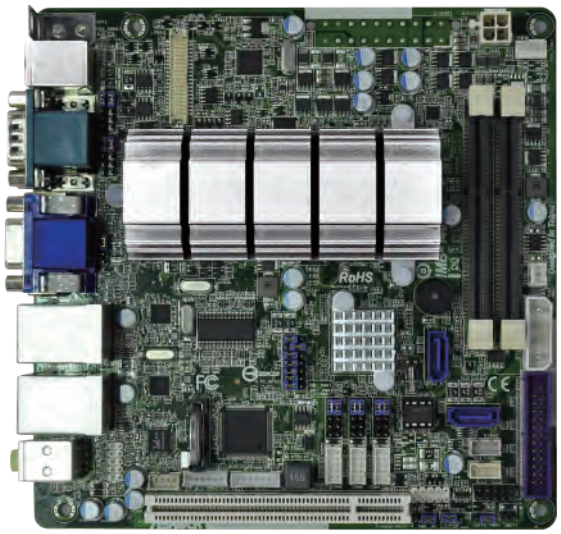

Product Brief

- Intel® Dual-Core Atom™ D2700 CPU
- Intel® NM10 Express Chipset
- Supports PCIe x16 (Gen2) and Mini-PCIe
- Supports Dual VGA Display : D-Sub, HDMI
- Supports 3 x COM Ports
- Built-in Intel® PowerVR SGX545, DirectX 9.0, Pixel Shader 3.0
- Supports Gigabit LAN: 2 x Realtek RTL8111E-VL
- Supports graphical UEFI

Specifications

Form Factor	Dimensions	- Mini-ITX (6.7-in x 6.7-in)
Processor System	CPU	- Intel® Dual-Core Atom™ Processor D2700 (CedarView) - Supports Hyper-Threading Technology - Supports Untied Overclocking Technology
	Core Number	- 2
	Max Speed	- 2.13 GHz
	L3 Cache	- N/A
	Chipset	- NM10
	BIOS	- UEFI
Expansion Slot	PCI	- 1
	Mini-PCIe 1	- 1
	PCIe x16 (Gen2)	- 0
	CF Card Socket	- 1
Memory	Technology	- Single Channel DDR3 800/1066 MHz SDRAM
	Max.	- 4GB
	Socket	- SO-DIMM x 2
Graphics	Controller	- Intel® PowerVR SGX545, Support Directx9 compliant Pixel Shader v3.0 and OGL 3.0
	VRAM	- Shared Memory
	VGA	- Yes, supports max. resolution 1920 x 1200
	LVDS	- Dual channel 24-bit, max resolution 1920x1200
	HDMI	- Supports HDMI 1.3a, max resolution 1920x1200
	DVI	- No
	Multi Display	- Yes
Ethernet	Interface	- 10/100/1000 Mbps
	Controller	- GbE LAN: 2 x Realtek RTL8111E-VL
	Connector	- RJ-45 x 2
SATA	Max Data Transfer Rate	- SATA2 3.0Gb/S
Rear I/O	VGA	- D-Sub x 1
	HDMI	- 1
	DVI-I/D	- 0
	Ethernet	- 2
	USB	- 4 (USB 2.0 compliant)
	Audio	- 2 (Mic-in, Line-out)
	Serial	- 1(RS-232/422/485) + 1 (RS232)+ 1 (RJ45 type)
	PS/2	- 2 (1 x keyboard and 1 x mouse)
Internal Connector	USB	- 3 (USB 2.0 compliant)
	LVDS/inverter	- 1
	VGA	- 0
	Serial	- 3 (RS-232)
	IDE	- 0
	SATA	- 2 (SATA2)
	Mini-PCIe 1	- 1
	Parallel	- 1
	IrDA	- 0
	GPIO 8-bit	- 4 x GPI + 4 x GPO
	SATA PWR Output Con	- 1
	Speaker Header	- 1
Watchdog Timer	Output	- From Super I/O to drag RESETCON#
	Interva	- 256 segments, 0,1,2…255sec/min
Power Requirements	Input PWR	- 12V DC-In (4-pin ATX PWR Con)
	Power On	AT/ATX Supported -AT : Directly PWR on as Power input ready -ATX: Press Button to PWR on after Power input ready
Environment	Temperature	- 0ºC – 60ºC

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.

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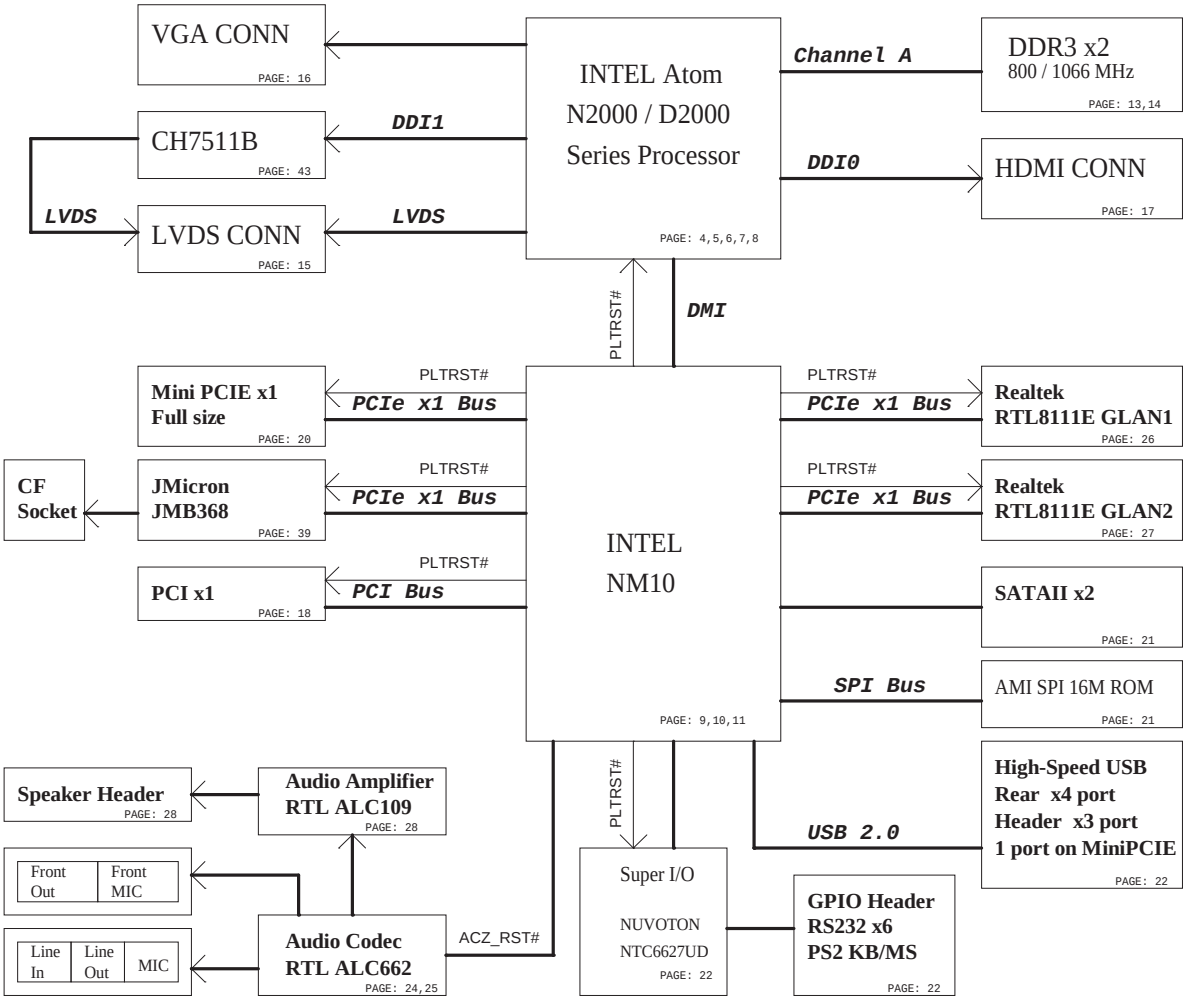
Board Diagram



IPC Motherboards Focused Markets

ASRock IMB solutions can be widely used for industrial applications, such as process control, data acquisition, and so on. IMB-PCs are typically panel mounted and often incorporate touch screens for user interaction.